

AMENDMENT

Please amend the above-identified application as follows:

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

1. (Currently Amended) A method for providing a reusable software control, comprising:

incorporating the control into an Integrated Development Environment (IDE), wherein a graphical representation of the control can be interactively manipulated, and wherein the graphical representation of the control includes a graphical representation of a programmatic interface for the control; ~~the graphical representation of the programmatic interface indicating how other programs can access the control;~~

exposing services associated with the control and related to programmatically interacting with a portal; and

wherein the control has a customizable interface; and

wherein when a control is added to the IDE, the IDE adds an annotation to a control file so that the IDE can identify the control file as being associated with the control.

2. (Original) The method of claim 1 wherein the services can include:

a first group of services related to portal tracking; and

a second group of services related to portal personalization.

3. (Original) The method of claim 1 wherein the interactive manipulation of the control includes:

graphically connecting the control to other controls to establish flow-of-control at run-time.

4. (Previously Presented) The method of claim 1 wherein:

the control includes annotated code.

5. (Original) The method of claim 1 wherein:

the control can use other controls.

6. (Original) The method of claim 1, further comprising:

specifying IDE characteristics of the control.

7. (Original) The method of claim 1 wherein:

the services related to interacting with a portal can include one or more of: portal personalization, portal events and portal configuration.

8. (Currently Amended) A method for providing a reusable software control, comprising:

incorporating the control into an Integrated Development Environment (IDE), wherein a graphical representation of the control can be interactively manipulated by graphically connecting the control to other controls to establish flow-of-control at run-time;

exposing services associated with the control and related to programmatically interacting with a portal; and

wherein the control has a customizable interface, and wherein the graphical representation of the control includes a graphical representation of a programmatic interface for the control, ~~the graphical representation of the programmatic interface indicating how other programs can access the control; and~~

wherein when a control is added to the IDE, the IDE adds an annotation to a control file so that the IDE can identify the control file as being associated with the control.

9. (Original) The method of claim 8 wherein the services can include:

- a first group of services related to portal tracking; and
- a second group of services related to portal personalization.

10. (Previously Presented) The method of claim 8 wherein:

- the control includes annotated code.

11. (Original) The method of claim 8 wherein:

- the control can use other controls.

12. (Original) The method of claim 8, further comprising:

- specifying IDE characteristics of the control.

13. (Original) The method of claim 8 wherein:

- the services related to interacting with a portal can include one or more of: portal personalization, portal events and portal configuration.

14. (Currently Amended) A ~~computer-based~~ computer system ~~[[for]]~~ including at least one processor, the computer system providing a reusable software control, said system comprising:

an Integrated Development Environment (IDE) operable to incorporate the control, wherein a graphical representation of the control can be interactively manipulated in the IDE, and wherein the graphical representation of the control includes a graphical representation of a programmatic interface for the control;

a set of services associated with the control and related to programmatically interacting with a portal; and

wherein the control has a customizable interface;

~~wherein the IDE is implemented using at least one processor and at least one memory and~~

wherein when a control is added to the IDE, the IDE adds an annotation to a control file so that the IDE can identify the control file as being associated with the control.

15. (Currently Amended) The ~~computer-based~~ computer system of claim 14 wherein the services can include:

a first group of services related to portal tracking; and

a second group of services related to portal personalization.

16. (Currently Amended) The ~~computer-based~~ computer system of claim 14 wherein the interactive manipulation of the control includes:

graphically connecting the control to other controls to establish flow-of-control at run-time.

17. (Currently Amended) The ~~computer-based~~ computer system of claim 14 wherein:
the control includes annotated code.

18. (Currently Amended) The ~~computer-based~~ computer system of claim 14 wherein:
the control can use other controls.

19. (Currently Amended) The ~~computer-based~~ computer system of claim 14, further
comprising:
specifying IDE characteristics of the control.

20. (Currently Amended) The ~~computer-based~~ computer system of claim 14 wherein:
the services related to interacting with a portal can include one or more of: portal
personalization, portal events and portal configuration.

21. (Currently Amended) A ~~computer-based~~ computer system ~~[[for]]~~ including at least one
processor, the computer system providing a reusable software control, said framework
comprising:

an Integrated Development Environment (IDE) operable to incorporate the control,
wherein a graphical representation of the control can be interactively manipulated in the IDE by
graphically connecting the control to other controls to establish flow-of-control at run-time, and
wherein the graphical representation of the control includes a graphical representation of a

programmatic interface for the control, ~~the graphical representation of the programmatic interface indicating how other programs can access the control;~~

a set of services associated with the control and related to programmatically interacting with a portal; and

wherein the control has a customizable interface;

~~wherein the IDE is implemented using at least one processor and at least one memory and~~

wherein when a control is added to the IDE, the IDE adds an annotation to a control file so that the IDE can identify the control file as being associated with the control.

22. (Currently Amended) The ~~computer-based~~ computer system of claim 21 wherein the services can include:

a first group of services related to portal tracking; and

a second group of services related to portal personalization.

23. (Currently Amended) The ~~computer-based~~ computer system of claim 21 wherein the interactive manipulation of the control includes:

graphically connecting the control to other controls to establish flow-of-control at run-time.

24. (Currently Amended) The ~~computer-based~~ computer system of claim 21 wherein:

the control includes annotated Java code.

25. (Currently Amended) The ~~computer-based~~ computer system of claim 21 wherein:

the control can use other controls.

26. (Currently Amended) The ~~computer-based~~ computer system of claim 21, further comprising:

specifying IDE characteristics of the control.

27. (Currently Amended) The ~~computer-based~~ computer system of claim 21 wherein:

the services related to interacting with a portal can include one or more of: portal personalization, portal events and portal configuration.

28. (Currently Amended) A machine readable storage medium having instructions stored thereon that when executed by a processor cause a system to:

incorporate control into an Integrated Development Environment (IDE), wherein a graphical representation of the control can be interactively manipulated, and wherein the graphical representation of the control includes a graphical representation of a programmatic interface for the control, the graphical representation of the programmatic interface indicating how other programs can access the control;

expose services associated with the control and related to programmatically interacting with a portal; and

wherein the control has a customizable interface; and

wherein when a control is added to the IDE, the IDE adds an annotation to a control file so that the IDE can identify the control file as being associated with the control.

29. (Currently Amended) The machine readable storage medium of claim 28 wherein the services can include:

- a first group of services related to portal tracking; and
- a second group of services related to portal personalization.

30. (Currently Amended) The machine readable storage medium of claim 28 wherein the interactive manipulation of the control includes:

graphically connecting the control to other controls to establish flow-of-control at run-time.

31. (Currently Amended) The machine readable storage medium of claim 28 wherein:
the control includes annotated code.

32. (Currently Amended) The machine readable storage medium of claim 28 wherein:
the control can use other controls.

33. (Currently Amended) The machine readable storage medium of claim 28, further comprising instructions that when executed cause the system to:
specify IDE characteristics of the control.

34. (Currently Amended) The machine readable storage medium of claim 28 wherein:
the services related to interacting with a portal can include one or more of: portal personalization, portal events and portal configuration.

35. (Currently Amended) A computer readable storage medium, comprising:

a code segment including instructions to incorporate control into an Integrated Development Environment (IDE), wherein a graphical representation of the control can be interactively manipulated, and wherein the graphical representation of the control includes a graphical representation of a programmatic interface for the control; ~~the graphical representation of the programmatic interface indicating how other programs can access the control;~~

a code segment including instructions to expose services associated with the control and related to programmatically interacting with a portal; and

wherein the control has a customizable interface; and

wherein when a control is added to the IDE, the IDE adds an annotation to a control file so that the IDE can identify the control file as being associated with the control.

36. (Previously Presented) The computer readable storage medium of claim 35, wherein the control includes software methods,
wherein the graphical representation of the control includes graphical representations of the software methods.

37. (Previously Presented) The method of claim 1, wherein the control includes software methods,
wherein the graphical representation of the control includes graphical representations of the software methods.

38. (Previously Presented) The method of claim 8, wherein the control includes software methods,
wherein the graphical representation of the control includes graphical representations of the software methods of the control.

39. (Currently Amended) The computer ~~based~~ system of claim 14, wherein the control includes software methods, wherein the graphical representation of the control includes graphical representations of the software methods of the control.

40. (Currently Amended) The computer ~~based~~ system of claim 21, wherein the control includes software methods,
wherein the graphical representation of the control includes graphical representations of the software methods of the control.

41. (Currently Amended) The machine readable storage medium of claim 28, wherein the control includes software methods,
wherein the graphical representation of the control includes graphical representations of the software methods of the control.